

#### MAXIMUM PERMISSIBLE EXPOSURE

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

# **EUT Specification**

FCC ID:	VMIMR4K					
EUT Anbotek Anbo	WIRELESS NETWORK VIDEO RECORDER					
Frequency band	☐ WLAN: 2.412GHz ~ 2.462GHz					
(Operating)	☐ WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz					
Amboten Amb	☐ WLAN: 5.745GHz ~ 5825GHz					
ek abotek Anbor	☑ Others: 902~928MHz					
Device category	☐ Portable (<20cm separation)					
poter And stek Anbotek	⊠ Mobile (>20cm separation)					
anbotek Anbo. Ak hote	☐ Others					
<b>Exposure classification</b>	☐ Occupational/Controlled exposure					
An otek Anbotek Ant	⊠ General Population/Uncontrolled exposure					
Antenna diversity	⊠ Single antenna					
k Anbor k An hotek	☐ Multiple antennas					
otek Anboten Anb	☐ TX diversity					
tek upotek Aupo.	☐ RX diversity					
Inpo, K Wolek Wupole	☐ TX/RX diversity					
Max. output power	23.791 dBm (0.2394W)					
Antenna gain (Max)	2.92 dBi					
Evaluation applied	⊠MPE Evaluation					
All wotek Anbotek	☐ SAR Evaluation					

#### Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm <sup>2</sup> )	hotek Anboren	
Anbore And	(A) Limits for	Occupational/Cont	rol Exposures	And otek Anbot	
300-1500	inpo	Anbore An	F/300	Anto 6	
1500-100000	Anbore - An	ek Artsofer	and to botch	Anb 6	
por him potek	(B) Limits for Gen	eral Population/Un	control Exposures	tek Anbotes	
300-1500	t upstek Ar	bo, wotek	F/1500	30 botek	
1500-100000	or - Polok	Anbore - Anb	4 anb Tek Ar	30 morek	







## Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R2)

Where
Pd= Power density in mW/cm²
Pout=output power to antenna in Mw
G= gain of antenna in linear scale
Pi=3.1416

R= distance between observation point and center of the radiator in cm Pd the limit of MPE. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

### **Measurement Result**

Operating Mode	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
	(dBm)	(dBm)	(dBm)	(dBi)	(mW/cm <sup>2</sup> )	(mW/cm²)
SRD	23.791	23.791 ±1	24.79	2.92	0.1175	0.6053

Result: No Standalone SAR test is required.



Hotline.

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